

GenCore version 5.1.4-p5.4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 10:36:10 ; Search time 15 Seconds
(without alignments)
76.908 Million cell updates/sec

Title: US-09-551-151a-43
Perfect score: 64
Sequence: 1 SPQGIAGGRNF 12

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 3212

Minimum DB seq length: 0
Maximum DB seq length: 18

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: PIR_73:*

1: p1r1:*

2: p1r2:*

3: p1r3:*

4: p1r4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	26.5	41.4	16	2 PH0773	T-cell receptor be
2	26	40.6	15	2 A61391	alpha-1-antitryps
3	25	39.1	10	2 C44787	callifmframide 12
4	24	37.5	9	2 PD0027	pev-tachykinin - p
5	23	35.9	18	2 S19914	choleline O-acetyl
6	22.5	35.2	16	2 PH0767	T-cell receptor be
7	22	34.4	12	2 S65626	phosphorylase b -
8	22	34.4	13	2 PH0787	T-cell receptor al
9	22	34.4	17	2 A61117	somatostatin precu
10	22	34.4	17	2 S15778	insulin chain B -
11	22	34.4	17	2 A49635	Golli-mbp - human
12	21	32.8	12	2 PH1454	T-cell receptor al
13	21	32.8	14	2 B60414	somatostatin - sll
14	21	32.8	14	2 B60842	somatostatin I - c
15	21	32.8	14	2 A60840	somatostatin I - E
16	21	32.8	14	2 S00172	somatostatin I - s
17	21	32.8	15	2 S26515	T-cell receptor al
18	21	32.8	15	2 PT0085	protein Q6600027 -
19	21	32.8	15	2 PH1443	T-cell receptor al
20	20	31.2	8	2 A35768	T-cell receptor al
21	20	31.2	10	2 C39745	sphingomyelinase -
22	20	31.2	10	2 A24196	acetylcholinestera
23	20	31.2	12	2 PH1567	ceredin 28 - huma
24	20	31.2	13	2 I50173	alpha-2 collagen
25	20	31.2	15	2 C56979	collagen alpha 1(I
26	20	31.2	15	2 S33781	acetylactate synth
27	20	31.2	17	2 S57556	T cell receptor be
28	20	31.2	18	2 A28060	elastase inhibitor
29	19	29.7	6	2 B56979	collagen alpha 1(I

30	19	29.7	8	2 PT0323	Ig heavy chain CRD
31	19	29.7	9	2 D44787	callifmframide 13
32	19	29.7	10	2 S23371	T-cell receptor al
33	19	29.7	11	2 F58501	43.5K bile stone p
34	19	29.7	11	2 PC2330	cycloimmunoglobosc
35	19	29.7	13	2 D61458	Ig kappa chain V-T
36	19	29.7	13	2 PH1772	T cell receptor al
37	19	29.7	14	2 A58503	kidney and bladder
38	19	29.7	14	2 S29486	GTP-binding protei
39	19	29.7	15	2 JT0610	leukocyte chemocat
40	19	29.7	15	2 PN0144	serine proteinase
41	19	29.7	16	2 A59155	multicystatin - to
42	19	29.7	17	2 F58502	41K stone protein
43	19	29.7	17	2 S16929	flavodoxin A - Azo
44	19	29.7	18	2 A24345	Ca2+-transporting
45	19	29.7	18	2 S23971	alpha-macroglobulin

ALIGNMENTS

RESULT 1

PH0773
T-cell receptor beta chain (C7) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 05-Nov-1999
C:Accession: PH0773
R:Casanova, J.L., Romero, P., Midmann, C., Kourilsky, P., Maryanski, J.L.
J. Exp. Med. 174, 1371-1383, 1991
A:Title: T cell receptor genes in a series of class I major histocompatibility complex allelic exclusion and antigen-specific repertoire.
A:Reference number: PH0746; MUID:92078846; PMID:18356010
A:Accession: PH0773
A:Molecule type: mRNA
A:Residues: 1-16 <CAS>
A:Cross-references: EMBL:X60868; NID:950247; PIDN:CMA43257.1; PID:950248
A:Experimental source: T lymphocyte
C:Keywords: T-cell receptor

Query Match 41.4%; Score 26.5; DB 2; Length 16;
Best local similarity 58.3%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 3; Indels 1;

OY 1 SP-QGIAGGRNF 11
DB 4 SPQGIAGGRNF 15

RESULT 2

A61391
alpha-1-antitrypsin homolog - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 17-Mar-1999
C:Accession: A61391
R:Tanaka, N., Sekiya, S., Takamizawa, H., Kato, N., Moriyama, Y., Fujimura, S.
Jpn. J. Cancer Res. 82, 693-700 1991
A:Title: Characterization of a 54 kDa, alpha-1-antitrypsin-like protein isolated from
A:Reference number: A61391; MUID:91310496; PMID:1906655
A:Status: preliminary
A:Accession: A61391
A:Molecule type: protein
A:Residues: 1-15 <TAN>

Query Match 40.6%; Score 26; DB 2; Length 15;
Best local similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0;

OY 2 POGIAGOR 9
DB 3 POGIAGOR 10

RESULT 3

C44787

Calliphora vomitoria - bluebottle fly (Calliphora vomitoria)

C:Species: Calliphora vomitoria

C>Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Mar-1999

C:Accession: C44787

R:Dive, H.; Johnson, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe

Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992

A:Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi

A:Reference number: A41978; PMID:9219611; PMID:1549595

A:Accession: C44787

A:Status: preliminary

A:Molecule type: protein

A:Residues: 1-10 <DUV>

A:Keywords: amidated carboxyl end; neuropeptide

F:10/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match

Best Local Similarity 39.1%; Score 25; DB 2; Length 10;

Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 2 AGODNF 7

QY 6 AGORNF 11

QY 2 AGODNF 7

Db 2 AGODNF 7

QY 6 AGORNF 11

QY 2 AGODNF 7

Db 2 AGODNF 7

QY 6 AGORNF 11

QY 2 AGODNF 7

Db 2 AGODNF 7

QY 6 AGORNF 11

QY 2 AGODNF 7

Db 2 AGODNF 7

QY 6 AGORNF 11

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QY 2 AGODNF 7

Db 2 AGODNF 7

QY 6 AGORNF 11

QY 2 AGODNF 7

Db 2 AGODNF 7

QY 6 AGORNF 11

QY 2 AGODNF 7

RESULT 6

T-cell receptor beta chain (J5) - mouse (fragment)

C:Species: Mus musculus (house mouse)

C>Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 05-Nov-1999

C:Accession: PH0767

R:Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.

J. Exp. Med. 174, 1371-1383, 1991

A:Title: T cell receptor genes in a series of class I major histocompatibility comple

A:Reference number: PH0746; PMID:92078846; PMID:1836010

A:Accession: PH0767

A:Molecule type: mRNA

A:Residues: 1-16 <CAS>

A:Cross-references: EMBL:X60861; NID:952752; PIDN:CAAA3251.1; PID:952753

A:Experimental source: T lymphocyte

C:Keywords: T-cell receptor

Query Match

Best Local Similarity 35.2%; Score 22.5; DB 2; Length 16;

Matches 6; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

Db 5 SPOG-SNERLF 14

QY 1 SPOG-SNERLF 11

QY 5 SPOG-SNERLF 14

Db 5 SPOG-SNERLF 14

QY 1 SPOG-SNERLF 11

QY 5 SPOG-SNERLF 14

Db 5 SPOG-SNERLF 14

QY 1 SPOG-SNERLF 11

QY 5 SPOG-SNERLF 14

Db 5 SPOG-SNERLF 14

QY 1 SPOG-SNERLF 11

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QY 1 SPOG-SNERLF 11

QY 5 SPOG-SNERLF 14

Db 5 SPOG-SNERLF 14

QY 1 SPOG-SNERLF 11

QY 5 SPOG-SNERLF 14

Db 5 SPOG-SNERLF 14

QY 1 SPOG-SNERLF 11

RESULT 7

Phosphorylase b - rabbit (fragments)

C:Species: Oryctolagus cuniculus (domestic rabbit)

C>Date: 14-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997

C:Accession: S65626

R: Luo, S.; Martin, B.L.; Senshu, T.; Graves, D.J.

Arch. Biochem. Biophys. 318, 362-369, 1995

A:Title: Enzymatic determination of glycogen phosphorylase and a peptide of the phospho

A:Reference number: S65626; PMID:95251385; PMID:7733664

A:Accession: S65626

A:Status: preliminary

A:Molecule type: protein

A:Residues: 1-3;4-12 <LUO>

Query Match

Best Local Similarity 34.4%; Score 22; DB 2; Length 12;

Matches 4; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Db 4 GIAGORN 10

QY 4 GIAGORN 10

QY 4 GIAGORN 10

Db 4 GIAGORN 10

QY 4 GIAGORN 10

QY 4 GIAGORN 10

Db 4 GIAGORN 10

QY 4 GIAGORN 10

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QY 4 GIAGORN 10

Db 4 GIAGORN 10

QY 4 GIAGORN 10

QY 4 GIAGORN 10

Db 4 GIAGORN 10

RESULT 8

T-cell receptor alpha chain (F8) - mouse (fragment)

C:Species: Mus musculus (house mouse)

C>Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997

C:Accession: PH0787

R: Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.

J. Exp. Med. 174, 1371-1383, 1991

A:Title: T cell receptor genes in a series of class I major histocompatibility comple

A:Reference number: PH0746; PMID:92078846; PMID:1836010

A:Accession: PH0787

A:Molecule type: mRNA

A:Residues: 1-13 <CAS>

A:Cross-references: EMBL:X60891

A:Experimental source: T lymphocyte

C:Keywords: T-cell receptor

Query Match

Best Local Similarity 34.4%; Score 22; DB 2; Length 13;

Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 4 GIAGORN 10

QY 4 GIAGORN 10

QY 4 GIAGORN 10

Db 4 GIAGORN 10

QY 4 GIAGORN 10

QY 4 GIAGORN 10

Db 4 GIAGORN 10

QY 4 GIAGORN 10

QY 4 GIAGORN 10

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QY 4 GIAGORN 10

QY 4 GIAGORN 10

Db 4 GIAGORN 10

QY 4 GIAGORN 10

QY 4 GIAGORN 10

Db 4 GIAGORN 10

QY 4 GIAGORN 10

OY 6 AGORNF 11
11:11
DB 5 AGYQNF 10

RESULT 9

AB1117
somatostatin precursor processing enzyme (EC 3.4.21.-) - American gooselish (fragment)
C:Species: Lopholaimus americanus (American gooselish)
C:Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 13-Sep-1996
C:Accession: AB1117
R:MacKinn, R.B.; Noe, B.D.; Spleess, J.
Endocrinology 129, 2263-2265, 1991
A:Title: Identification of a somatostatin-14-generating propeptide converting enzyme as
A:Reference number: AB1117; MUID:92007528; PMID:1680673
A:Accession: AB1117
A:Molecule type: protein
A:Residues: 1-17 <MAC>
A:Experimental source: pancreatic islets
C:Superfamily: kexin; subtilisin homology
C:Keywords: hydrolase; serine protease

Query Match 34.4%; Score 22; DB 2; Length 17;
Best Local Similarity 66.7%; Pred. No. 9.8e+02;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 7 GORNF 12
11:11
DB 1 GYRNIN 6

RESULT 10

S15778
insulin chain B - bovine (fragments)
C:Species: Bos primigenius indicus x Bos primigenius taurus (cattle)
C:Date: 19-Mar-1997 #sequence_revision 16-Jul-1999 #text_change 16-Jul-1999
C:Accession: S15778; S15779
R:Bergman, T.; Agerberth, B.; Joernvall, H.
FEBS Lett. 283, 100-103, 1991
A:Title: Direct analysis of peptides and amino acids from capillary electrophoresis.
A:Reference number: S15778; MUID:91243852; PMID:2037061
A:Accession: S15778
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-8 <FE81>
A:Accession: S15779
A>Status: preliminary
A:Molecule type: protein
A:Residues: 9-17 <FE82>
C:Superfamily: Insulin
C:Keywords: hormone; pancreas

Query Match 34.4%; Score 22; DB 2; Length 17;
Best Local Similarity 42.9%; Pred. No. 9.8e+02;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 5 IAGORNF 11
11:11
DB 5 VCGERGF 11

RESULT 11

A49635
G011-mbp - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 05-Nov-1999
C:Accession: A49635
R:Pribby, T.M.; Campagnoni, C.W.; Kampf, K.; Kashima, T.; Handley, V.W.; McMahon, J.; Ca
Proc. Natl. Acad. Sci. U.S.A. 90, 10695-10699, 1993
A:Title: The human myelin basic protein gene is included within a 179-kilobase transcrip
A:Reference number: A49635; MUID:94084468; PMID:7504278
A:Accession: A49635

A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-17 <RES>
A:Cross-references: GB:L18862; MUID:9435054; PIDN:AAV2008.1; PID:9435055

Query Match 34.4%; Score 22; DB 2; Length 17;
Best Local Similarity 57.1%; Pred. No. 9.8e+02;
Matches 4; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 6 AGORNF 12
11:11
DB 5 AGKRELN 11

RESULT 12

PH1454
T-cell receptor alpha chain (clone A3/72.2) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 11-Apr-1995
C:Accession: PH1454
R:Casanova, J.L.; Martinon, F.; Gounier, H.; Barra, C.; Pannefier, C.; Regnault, A.;
J. Exp. Med. 177, 811-820, 1993
A:Title: T cell receptor selection by and recognition of two class I major histocompa
A:Reference number: PH1430; MUID:93171821; PMID:8436911
A:Accession: PH1454
A:Molecule type: mRNA
A:Residues: 1-12 <CAS>
A:Experimental source: cytolytic T-lymphocyte
C:Superfamily: immunoglobulin homology
C:Keywords: receptor; T-cell

Query Match 32.8%; Score 21; DB 2; Length 12;
Best Local Similarity 42.9%; Pred. No. 1.1e+03;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 5 IAGORNF 11
11:11
DB 3 VTGYQNF 9

RESULT 13

C60414
somatostatin - slider turtle
C:Species: Pseudemys scripta (slider)
C:Date: 11-Feb-1993 #sequence_revision 11-Feb-1993 #text_change 31-Dec-1993
C:Accession: C60414
R:Conlon, J.M.; Hicks, J.W.
Peptides 11, 461-466, 1990
A:Title: Isolation and structural characterization of insulin, glucagon and somatosta
A:Reference number: A60414; MUID:90341082; PMID:1974347
A:Accession: C60414
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-14 <CON>
C:Superfamily: somatostatin
C:Keywords: neuropeptide

Query Match 32.8%; Score 21; DB 2; Length 14;
Best Local Similarity 66.7%; Pred. No. 1.3e+03;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 6 AGORNF 11
11:11
DB 1 AGCKNF 6

RESULT 14

B60842
somatostatin I - coho salmon
C:Species: Oncorhynchus kisutch (coho salmon)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C:Accession: B60842
R:Plisetkaya, E.M.; Pollock, H.G.; Rouse, J.B.; Hamilton, J.W.; Kimmel, J.R.; Andrew

Gen. Comp. Endocrinol. 63, 252-263, 1986
A:Title: Characterization of Coho salmon (Oncorhynchus kisutch) islet somatostatins.

A:Reference number: A60842; MUID:87055212; PMID:2877919
A:Accession: B60842

A:Molecule type: protein
A:Residues: 1-14 <PLI>

C:Superfamily: somatostatin
C:Keywords: hormone; pancreatic islet

Query Match

32.8%; Score 21; DB 2; Length 14;
Best Local Similarity 66.7%; Pred. No. 1.3e+03;

Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 6 AGCKNF 11

11 : 11
DB 1 AGCKNF 6

RESULT 15

A60840

somatostatin I - European eel
N:Alternate names: somatostatin-14

C:Species: Anguilla anguilla (European eel)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 20-Mar-1998

C:Accession: A60840
R:Conlon, J.M.; Deacon, C.F.; Hazen, N.; Henderson, I.W.; Thim, L.

Gen. Comp. Endocrinol. 72, 181-189, 1988
A:Title: Somatostatin-related and glucagon-related peptides with unusual structural feat

A:Reference number: A60840; MUID:89065329; PMID:2904391
A:Accession: A60840

A:Molecule type: protein
A:Residues: 1-14 <CON>

C:Superfamily: somatostatin
C:Keywords: hormone; pancreatic islet

Query Match

32.8%; Score 21; DB 2; Length 14;
Best Local Similarity 66.7%; Pred. No. 1.3e+03;

Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 6 AGCKNF 11

11 : 11
DB 1 AGCKNF 6

Search completed: May 16, 2003, 10:38:24
Job time : 16 secs